

We claim:

1. A servo controller operable to:
detect a first servo control signal associated with a first device;
detect a second servo control signal associated with a second device;
calculate a time period substantially equal to a time between detection of the first and second servo control signals; and
adjust a servo control signal pattern associated with the second device when the calculated time period is not within an acceptable range to enable processing of both servo control signals and associated data content in real-time without substantial loss of data content or servo control signal errors.
2. The controller as in claim 1 wherein the acceptable range is substantially equal to at least one half a time period between successive, first servo control signals.
3. The controller as in claim 1 wherein the acceptable range is substantially equal to a time period which is greater than one half a time period between successive, first servo control signals.
4. The controller as in claim 1 wherein the first device and second device are selected from the group consisting of at least a hard disc drive magnetic head and a digital video disc drive laser.
5. The controller as in claim 1 comprising a controller selected from the group consisting of at least a microprocessor, digital signal processor, logic circuitry or some combination of the three.
6. The controller as in claim 1 further operable to adjust a position of the second device with respect to a storage media when the calculated time period is not within the acceptable range, until the time period falls within the acceptable range.

7. The controller as in claim 1 further comprising program memory operable to store at least one or more instructions for controlling the position of the first and second devices.

8. The controller as in claim 1 further operable to:
detect a rotational speed of a first storage media and a rotational speed of a second storage media;
adjust the rotational speed of one or both storage media to ensure that a time period between detection of a servo control signal associated with a position of the first storage media and detection of a servo control signal associated with a position of the second storage media remains within the acceptable range.

9. The controller as in claim 1 further operable to:
detect the second servo control signal and associated data content after detecting an end to a track of a storage media associated with the first servo control signal.

10. A servo controller operable to:
detect a first servo control signal associated with a first device;
and
process said first servo control signal and associated data content when there is no previously detected second servo control signal and associated data content that has not been processed at the time the first servo control signal is detected.

11. The controller as in claim 10 further operable to:
detect a second servo control signal associated with a second device; and
process said second servo control signal and associated data content when there is no previously detected first servo control signal and associated data content that have not been processed at the time

the second servo control signal is detected, or when a previously detected second servo control signal has not been processed.

12. A servo controller operable to:
detect a first servo control signal associated with a first device;
process said first servo control signal and associated data content prior to the detection of a second servo control signal;
detect a second servo control signal associated with a second device; and
process said second servo control signal and associated data content prior to the detection of a next, first servo control signal.

13. A method for processing more than one servo control signal comprising:
detecting a first servo control signal associated with a first device;
detecting a second servo control signal associated with a second device;
calculating a time period substantially equal to a time between detection of the first and second servo control signals; and
adjusting a servo control signal pattern associated with the second device when the calculated time period is not within an acceptable range to enable processing of both servo control signals and associated data content in real-time without substantial loss of data content or servo control signal errors.

14. The method as in claim 13 wherein the acceptable range is substantially equal to at least one half a time period between successive, first servo control signals.

15. The method as in claim 13 wherein the acceptable range is substantially equal to a time period which is greater than one half a time period between successive, first servo control signals.

16. The method as in claim 13 wherein the first device and second device are selected from the group consisting of at least a hard disc drive magnetic head and a digital video disc drive laser.

17. The method as in claim 13 further comprising adjusting a position of the second device with respect to a storage media when the calculated time period is not within the acceptable range, until the time period falls within the acceptable range.

18. The method as in claim 13 further comprising storing at least one or more instructions for controlling the position of the first and second devices.

19. The method as in claim 13 further comprising:
detecting a rotational speed of a first storage media and a rotational speed of a second storage media;
adjusting the rotational speed of one or both storage media to ensure that a time period between detection of a servo control signal associated with a position of the first storage media and detection of a servo control signal associated with a position of the second storage media remains within the acceptable range.

20. The method as in claim 14 further comprising detecting the second servo control signal and associated data content after detecting an end to a track of a storage media associated with the first servo control signal.